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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/605,186	09/12/2003		Mark Keenan	001-225	2185
29569	7590	02/07/2006		EXAM	INER
JEFFREY F			AHLUWALIA, NAVNEET K		
253 N. MAIN STREET JOHNSTOWN, OH 43031				ART UNIT	PAPER NUMBER
				2166	

DAȚE MAILED: 02/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/605,186	KEENAN ET AL.
Office Action Summary	Examiner	Art Unit
	Navneet K. Ahluwalia	2166
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be til will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1)	action is non-final. nce except for formal matters, pr	
Disposition of Claims		
 4) Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) 11 is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 12 September 2003 is/3 Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11.	are: a) accepted or b) object drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	is have been received. Is have been received in Application of the second in Application of the second in the seco	tion No red in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Professors on's Retent Proving Review (PTO 948)	4) Interview Summar Paper No(s)/Mail D	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	m	Patent Application (PTO-152)

DETAILED ACTION

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1. The application has been examined. Claims 1 – 15 are pending in this office action.

Oath/Declaration

2. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

The digital signature for inventor Nathan Huebner is signed by Anthony Mirante in the Declaration as well as the power of attorney/ authorization of agent.

Drawings

3. The drawings are objected to because Figures 1, 2, 4 – 6 are not clear for examination or understanding the invention. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as

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either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. In addition to Replacement Sheets containing the corrected drawing figure(s), applicant is required to submit a marked-up copy of each Replacement Sheet including annotations indicating the changes made to the previous version. The marked-up copy must be clearly labeled as "Annotated Sheets" and must be presented in the amendment or remarks section that explains the change(s) to the drawings. See 37 CFR 1.121(d)(1). Failure to timely submit the proposed drawing and marked-up copy will result in the abandonment of the application.

Specification

5. The disclosure is objected to because of the following informalities:
In paragraph 0048 line 9 heuristic is misspelled as 'heuristinc'.
Appropriate correction is required.

Claim Objections

6. Claim 11 is objected to because of the following informalities:

In claim 11 line 3 heuristic is misspelled as 'heuristinc'. Appropriate correction is required.

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Claim Rejections - 35 USC § 112

7. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

8. Claims 1 – 15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

In Claim 1 the preamble states "a first group of constraints; ??????" which is not explained in the specification.

In Claim 11 the preamble states "search using one or more of a set of sampling, heuristic, genetic or other non-deterministic algorithm" not explained in the specification.

- 9. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 10. Claims 1 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In Claim 1 the preamble states "a first group of constraints; ??????" which is not understood as to how this would be a part of the system.

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Claim Rejections - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 12. Claims 1 10, 12 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Krupin et al. ('Krupin' herein after) (US 6,751,611 B2).

With respect to claim 1,

Krupin discloses a system performing a search query (Figure 4, Krupin) comprising:

- having user choose a first group of constraints (column 6 lines 31 39, Krupin); ???????
- having the user choose additional constraints (column 6 lines 39 50, Krupin);
- searching based on the first group of constraints (column 6 lines 52 57,
 Krupin);
- reviewing results of said search (column 9 lines 58 63, Krupin);
- determining whether or not to search using said additional constraints
 (column 7 lines 3 9, Krupin);

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- having if it is determined searching based on additional constraints (column 7 lines 24 – 39, Krupin); and

- providing the results of said search (column 11 lines 1 – 9, Krupin).

With respect to claim 2,

Krupin discloses a system according to claim 1 in which includes having said user access the system using the Internet (column 5 lines 42 – 54, Krupin).

With respect to claim 3,

Krupin discloses a system according to claim 1 in which includes having said user access the system through a client-server relationship (column 5 lines 42 – 54, Krupin).

With respect to claim 4,

Krupin discloses a system according to claim 1 in which includes having said user enter constraint using an entry means (Figure 4, column 2 lines 19 – 24, Krupin).

With respect to claim 5,

Krupin discloses a system according to claim 4 in which having said entry means is entering text (Figure 4, column 2 lines 19 – 24, Krupin).

With respect to claim 6,

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Krupin discloses a system according to claim 4 in which having said entry means is a dialog box (Figure 4, column 2 lines 19 – 24, Krupin).

With respect to claim 7,

Krupin discloses a system according to claim 4 in which having said entry means is a pick list (Figure 4, column 2 lines 25 – 42, Krupin).

With respect to claim 8,

Krupin discloses a system according to claim 4 in which having said entry means is radio buttons (Figure 4, column 2 lines 25 – 42, Krupin).

With respect to claim 9,

Krupin discloses a system according to claim 1 in which includes having said system search using all said first constraints and additional constraints (column 9 lines 1 – 5 and 58 – 63, Krupin).

With respect to claim 10,

Krupin discloses a system according to claim 1 in which includes having said system search using subsets of said constraints, keeping intermediate results and checking the remaining constraints if needed (column 11 lines 10 – 21 and 34 – 45, Krupin).

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With respect to claim 12,

Krupin discloses a system according to claim 1 in which includes relaxing, tightening or modifying the constraints before reporting said results (column 2 lines 34 – 40, Krupin).

With respect to claim 13,

Krupin discloses a system according to claim 1 in which includes using new constraints (column 2 lines 40 – 44, Krupin).

With respect to claim 14,

Krupin discloses a system according to claim 13 in which includes display said new constraints (Figures 5, 6, 7 and column 11 lines 5 – 20, Krupin).

With respect to claim 15,

Krupin discloses a system according to claim 1 in which includes returning the number of solutions for each subset of constraints (Figure 5, Krupin).

Claim Rejections - 35 USC § 103

- 13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 14. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 15. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Krupin et al. ('Krupin' herein after) (US 6,751,611 B2) as applied to claims 1 10 and 12 15 above, and further in view of Fox et al. ('Fox' herein after) (US 2003/0069873 A1).

With respect to claim 11,

Krupin discloses a system according to claim 1 in which includes having said system search using one or more of a set of sampling, heuristinc, genetic or other non-deterministic algorithm (column 11 lines 10 - 21).

Krupin however does not explicitly disclose the algorithm being one of sampling, heuristinc, genetic or other non-deterministic algorithm.

Fox teaches the use of sampling, heuristic, genetic or other non-deterministic algorithms (page 4 paragraph 0045 lines 10 – 15, Fox).

It would have been obvious to one of ordinary skill in the art of data processing at the time of the present invention to combine the teachings of cited references because

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the use of sampling, genetic, heuristic and non-deterministic algorithm of Fox's system would allow users to build and tailor a query as they further define the topic of interest, moving from a generic search to specific topic areas through query inputs (page 2 paragraph 0016 lines 6 - 10, Fox). Furthermore the use of algorithms would increase the system precision, affecting the number of documents that are retrieved as relevant (page 2 paragraph 0016 lines 10 - 14, Fox).

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Navneet K. Ahluwalia whose telephone number is 571-

272-5636. The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alam T. Hosain can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Navneet K. Ahluwalia

Examiner

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Dated: 02/01/2006

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